

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
20 January 2005 (20.01.2005)

PCT

(10) International Publication Number  
**WO 2005/005504 A1**

- (51) International Patent Classification<sup>7</sup>: C08G 18/08, C09D 175/04, C08G 18/12
- (21) International Application Number: PCT/EP2004/007354
- (22) International Filing Date: 6 July 2004 (06.07.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 03015968.5 14 July 2003 (14.07.2003) EP
- (71) Applicant (for all designated States except US): SURFACE SPECIALTIES, S.A. [BE/BE]; Allée de la Recherche, 60, B-1070 Brussels (BE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): TIELEMANS, Michel [BE/BE]; Avenue du Roi Albert Ier, 63/1A, B-1780 Wemmel (BE). BONTINCK, Dirk [BE/BE]; Kartuizerlei 18, B-9940 Ertvelde (BE). RENARD, Vincent [BE/BE]; Rue Dr. Beaujean 7 B.4, B-4218 Couthuin (BE).
- (74) Agent: DESTRYKER, Elise; UCB, S.A., Allée de la Recherche, 60, B-1070 Brussels (BE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations

Published:

- with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/005504 A1

(54) Title: WATERBONE SELF-CROSSLINKABLE POLYURETHANE DISPERSIONS AND POLYURETHANE: ACRYLIC HYBRID DISPERSIONS

(57) Abstract: The present invention concerns a hybrid polymer dispersion comprising a functionalized polyurethane polymer (A) and a functionalised vinyl polymer (B) either as individual particles or as composites particles wherein the polyurethane polymer is prepared in a high boiling point oxygenated coalescing solvent having no functional group reactive with isocyanates and that will remain after water dispersion.